

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1.-10. (Cancelled)

11. (Currently amended) A method for producing optically active cyanohydrin comprising
(a) obtaining a modified S-hydroxynitrile lyase,

wherein the modified S-hydroxynitrile lyase comprises an amino acid sequence having at
least one amino acid substitution in the helix D3 region from position 163 to 174 of SEQ
ID NO:2;

(b) allowing the adding the modified S-hydroxynitrile lyase according to claim 1 to react with to
a carbonyl compound and cyanide; and
(c) producing optically active cyanohydrin.

12. (Cancelled)

13. (New) The method of claim 11, wherein the modified S-hydroxynitrile lyase comprises
an amino acid sequence having an amino acid substitution at position 165 and/or position 173 of
SEQ ID NO: 2.

14. (New) The method of claim 13, wherein the modified S-hydroxynitrile lyase comprises
the amino acid sequence of SEQ ID NO: 8.

15. (New) The method of claim 13, wherein the modified S-hydroxynitrile lyase comprises the amino acid sequence of SEQ ID NO: 16.

16. (New) The method of claim 13, wherein the modified S-hydroxynitrile lyase comprises the amino acid sequence of SEQ ID NO: 32.